

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,908	12/29/2000		Hayden C. Cranford	RAL920000097US1/1963-7408 6858	
25299	7590	01/28/2005	,	EXAMINER	
IBM CORP	ORATIO	N	PATHAK, SUDHANSHU C		
PO BOX 12				Approprie	DARCH MUMBER
DEPT 9CCA	k, BLDG 0	002	ART UNIT	PAPER NUMBER	
RESEARCH TRIANGLE PARK, NC 27709				2634	
				DATE MAILED: 01/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
		CRANFORD, HAYDEN C.					
Notice of Allowability	09/749,908 Examiner	Art Unit					
	Coudh amakor O. Dathali	2624					
	Sudhanshu C. Pathak	2634					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS					
1. This communication is responsive to <u>September 28th</u> , 2004	! .						
2. The allowed claim(s) is/are Claims 1-29 & 33-36 and re-nu	mbered as claims 1-33 respectively	<u>/</u> .					
3. \boxtimes The drawings filed on <u>September 30th</u> , <u>2004</u> are accepted l	by the Examiner.						
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements					
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give							
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.						
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached							
1) hereto or 2) to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the	Office action of					
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in t							
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT							
Attachment(s)							
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	 Interview Summary (PTO-413), Paper No./Mail Date 						
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date							
4. Examiner's Comment Regarding Requirement for Deposit	=	ent of Reasons for Allowance					
of Biological Material	9. Other						

Application/Control Number: 09/749,908

Art Unit: 2634

DETAILED ACTION

- 1. Claims 1-29 & 33-36 are pending in the application.
- 2. Claims 30-32 have been canceled.

EXAMINER'S AMENDMENT

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
 Authorization for this examiner's amendment was given in a telephone interview.
 - with Joseph C. Redmond Jr. on January 4th, 2005 @ 12:30pm.
 - In Order to avoid a 35 U.S.C. 112, 2nd Paragraph Rejection the claims have been amended as follows:
 - ➤ In Claim 3, line 3, replace "(de)" with(d).....
 - ➤ In Claim 6, line 3, replace "(dh)" with(d).....
 - ➤ In Claim 21, line 3, replace "(eh)" with(e).....

Allowable Subject Matter

4. Claims 1-29 & 33-36 and re-numbered as claims 1-33 respectively are allowable over the prior art of record because the cited references do not contain the specified limitation of a programmable driver/equalizer for overcoming intersymbol Interference (ISI) and other transmission impairments in a variety of transmission media, comprising: a controllable driver set coupled to a transmission media and include compensation means compensation for self-

Application/Control Number: 09/749,908

Art Unit: 2634

induced ISI; a transversal filter receiving a data input signal and coupled to the transmission media, the filter having programmable filter coefficients sets; and means for altering the frequency response of the controllable driver sets based on a Z transform, to match the inverse of the frequency response of the transmission media.

Page 3

Conclusion

- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhanshu C. Pathak whose telephone number is (571)-272-3038. The examiner can normally be reached on M-F: 9am-6pm.
 - If attempts to reach the examiner by telephone are unsuccessful, the
 examiner's supervisor, Stephen Chin can be reached on (571)-272-3056
 - The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
 - Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sudhanshu C. Pathak

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2000

Application/Control Number: 09/749,908

Art Unit: 2634

Page 4